

What Is Claimed Is:

1. An apparatus for controlling a throttle valve electronically in an internal combustion engine, comprising:

a) a main body;

5 b) a throttle valve installed in an intake air passage of an internal combustion engine;

c) an actuator to control said throttle valve to open/close;

10 d) a supporting member to fasten a body of said actuator to said main body on an output side of said actuator;

15 e) a cover member to cover said body of said actuator and which is supported near a non-output side of said actuator by the main body, said actuator having a predetermined gap to said cover member; and

f) an elastic member in said predetermined gap on said non-output side of said actuator.

2. An apparatus for controlling a throttle valve electronically in an internal combustion engine as set forth in claim 1, wherein said elastic member is formed between a cylindrical outer side of said actuator on the non-output side and inside of said cover member.

3. An apparatus for controlling a throttle valve electronically in an internal combustion engine as set forth in claim 1, wherein said elastic member is formed between a plane perpendicular to an output axis of said actuator and inside of said cover member.

4. An apparatus for controlling a throttle valve electronically in an internal combustion engine as set forth in claim 1, which further comprises a fixing member to fix said elastic member at a predetermined position inside of said cover member.

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e) a cover means for covering said actuator means and which is supported near a non-output side of said actuator means by the main body, said actuator means having a predetermined gap to said cover means; and

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8. An apparatus for controlling a throttle valve electronically in an internal combustion engine as set forth in claim 7, wherein said elastic means is formed between a cylindrical outer side of said actuator means on the non-output side and inside of said cover means.

5 9. An apparatus for controlling a throttle valve electronically in an internal combustion engine as set forth in claim 7, wherein said elastic means is formed between a plane perpendicular to an output axis of said actuator means and inside of said cover means.

5 10. An apparatus for controlling a throttle valve electronically in an internal combustion engine as set forth in claim 7, which further comprises fixing means for fixing said elastic means at a predetermined position inside of said cover means.

5 11. An apparatus for controlling a throttle valve electronically in an internal combustion engine as set forth in claim 10, wherein said elastic means is formed between a cylindrical outer side of said actuator means on the non-output side and the inside of said cover means, and said fixing means restricts movement of said elastic means along a cylindrical central axis of said non-output side of said actuator means.

12. An apparatus for controlling a throttle valve electronically in an internal combustion engine as set forth in claim 7, wherein said elastic means is an o-ring.

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